Minikube

In the context of DevOps, Minikube is a lightweight, single-node Kubernetes cluster tool used for local development and testing, allowing developers to experiment with Kubernetes features without the complexities of a full-fledged cluster.



```
docker ps (check is container is running) kubectl
get node
kubectl get pod (No resources found) kubectl
get pod -o wide (No resources found)
minikube status kubeclt get deploy kubectl
get replica
JENKINS pipeline
pipeline {
  agent any
 tools {
   maven 'Maven'
 }
 stages {
   stage('SCM') {
     steps {
       git branch: 'main', url:
'https://github.com/NavinkumarD/DevOps-
1.git'
       bat 'dir' // Check directory structure
after clone
```

```
}
   }
   stage('Build') {
     steps {
       dir('simple-web-app') {
         bat 'mvn clean install'
       }
     }
   }
   stage('Build to Images') {
     steps {
       dir('simple-web-app') { // Ensure we
are in the correct directory
         bat 'docker build -t
22csl258/mysimplewebapplication:
       }
     }
   }
   stage('Push to Hub') {
     steps {
       script {
```